

This listing of claims will replace all prior versions, and listings, of claims in the application:

The Status of the Claims

1. (Currently Amended) A method of forming a bonding pad of a semiconductor device comprising:

forming a first insulating layer over a semiconductor substrate;

forming a trench by removing some part-portion of the first insulating layer;

forming a top metal interconnect in the trench;

forming a second insulating layer over the substrate including the top metal interconnect;

forming a contact hole by removing some part-portion of the second insulating layer, the contact hole exposing a portion of the top metal interconnect;

forming a metal layer on the surface of the second insulating layer and the sidewalls and bottom of the contact hole;

forming a metal pad by removing some parts-portions of the metal layer, wherein the metal pad is extended to some portion of a top surface of the second insulating layer;

forming a third insulating layer over the second insulating layer and the metal pad; and

exposing the extended metal pad on the top surface of the second insulating layer by removing some part-portion of the third insulating layer on the extended metal pad which is in contact with the top surface of the second insulating layer, wherein the exposed metal pad is displaced from the location at which the metal pad structure of the contact hole is attached to the top metal interconnect.

2. (Original) The method as defined by claim 1, wherein the top metal interconnect is formed of copper using at least one of electroless plating and electroplating.

3. (Original) The method as defined by claim 1, wherein the first insulating layer is formed of at least one of SiO_2 , FSG (fluorinated silica glass), and an insulating material with a low dielectric constant less than 3.0.

4. (Original) The method as defined by claim 1, wherein the second insulating layer is formed of at least one of SiO_2 , TEOS (tetraethyl orthosilicate), and SiN.

5. (Original) The method as defined by claim 1, wherein the third insulating layer functions as a passivation layer.

6. (Original) The method as defined by claim 1, wherein the third insulating layer is at least one of single layer and a multi-layer structure.

7. (Original) The method as defined by claim 6, wherein the single layer structure is formed of silicon nitride and the multi-layer structure is formed of oxide and nitride.